



SOLID-STATE CONTACTOR 3-PH 3RF3 AC53 5.4A 40 DEGREES C 48-480V / 110-230V AC REVERSE SWITCHING INSTANTANEOUS SCREW TERMINALS

General technical data:		
product brand name		SIRIUS
product designation		solid-state reversing contactor
_1 / of the accessories that can be ordered _2 / of the accessories that can be ordered		Link module Connection adapter
Manufacturer article number		3RA2921-1BA00 3RF3900-0QA88
Protection class IP		IP20
Insulation voltage / rated value	V	600
Installation altitude / at a height over sea level / maximum	m	1,000
Ambient temperature		
- during storage - during operating	°C	-55 ... +80 -25 ... +60
Resistance against shock		15g / 11 ms
Resistance against vibration		2g
Resistance against the impulse current / rated value	A	600
Active power loss / total / typical	W	9

Item designation • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2		K
		Q
Product function		reversing switch

Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		2
Operating frequency • rated value	Hz	60 ... 50
Operating voltage • at 60 Hz / at AC / rated value • at 50 Hz / at AC / rated value	V	48 ... 480
	V	48 ... 480
Operating current • minimum • at AC-3 / at 400 V / rated value	mA	500
	A	5.4
Working area related to the operating voltage • at 50 Hz / for AC • at 60 Hz / for AC	V	40 ... 506
	V	40 ... 506
Service power / at AC-3 / at 400 V • rated value	kW	2.2
Derating temperature	°C	40
Tolerance of the line frequency	Hz	5
Relative symmetrical tolerance / of the operation frequency	%	10
I²t-level / maximum	A ² ·s	1,800
Voltage slew rate / at the thyristor / for main contacts • maximum permissible	V/μs	1,000
Block voltage / at the thyristor / for main contacts • maximum permissible	V	1,200
Reverse current / of the thyristor	mA	10

Control circuit:		
Type of voltage / of the controlled supply voltage		AC
Control supply voltage frequency • 1 / rated value • 2 / rated value	Hz	50
	Hz	60
Relative symmetrical tolerance • of the control supply voltage frequency • of the supply voltage frequency	%	10
	%	10

Control supply voltage • 1 • at 50 Hz / for AC • initial rated value • final rated value • at 60 Hz / for AC • initial rated value • final rated value • at 50 Hz / for AC / final value for signal<0>-recognition • at 60 Hz / for AC / final value for signal<0>-recognition		
	V	90
	V	253
	V	90
	V	253
	V	40
Control current • for AC / rated value • at minimum control supply voltage / for AC	mA	15
	mA	2

Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of change-over switches / for auxiliary contacts		0

Installation/mounting/dimensions:		
mounting position		vertical
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Type of fixing/fixation / series installation		Yes
Tightening torque / of the screw for fastening of the operating resource	N·m	1.5
Design of the thread / of the screw for fastening of the operating resource		M4
Width	mm	45
Height	mm	95
Depth	mm	114.3
Distance, to be maintained, to the ranks assembly • upwards • downwards	mm	70
	mm	50

Connections:		
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit		screw-type terminals
		screw-type terminals
Design of the thread / of the connection screw • for main contacts • of the auxiliary and control pins		M4
		M3

Product function / removable terminal for auxiliary and control circuit		Yes
Type of the connectable conductor cross-section - for main contacts - solid - finely stranded - with conductor end processing - for AWG conductors / for main contacts - for auxiliary and control contacts - solid - finely stranded - with conductor end processing - without conductor final cutting - for AWG conductors / for auxiliary and control contacts		2x (1.5 ... 2.5 mm²), 2x (2.5 ... 6 mm²) 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm² 2x (14 ... 10) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) 1x (AWG 20 ... 12)
Tightening torque - for main contacts / with screw-type terminals - for auxiliary and control contacts / with screw-type terminals	N·m N·m	2 ... 2.5 0.5 ... 0.6
Tightening torque (lbf·in) - for main contacts / with screw-type terminals - for auxiliary and control contacts / with screw-type terminals	lbf·in lbf·in	18 ... 22 7.5 ... 5.3
Skinning length / of the cable - for main contacts - for auxiliary and control contacts	mm mm	10 7

Certificates/approvals:

Verification of suitability

CE / UL / CSA / CCC / C-TICK

General Product Approval

EMC

Declaration of Conformity

Test Certificates



CSA



GOST



UL



C-TICK



EG-Konf.

[Type Test Certificates/Test Report](#)

UL/CSA ratings

yielded mechanical performance (hp) / for three-phase squirrel cage motors

- at 200/208 V / rated value
- at 220/230 V / rated value
- at 460/480 V / rated value

hp
hp
hp

1
1
3

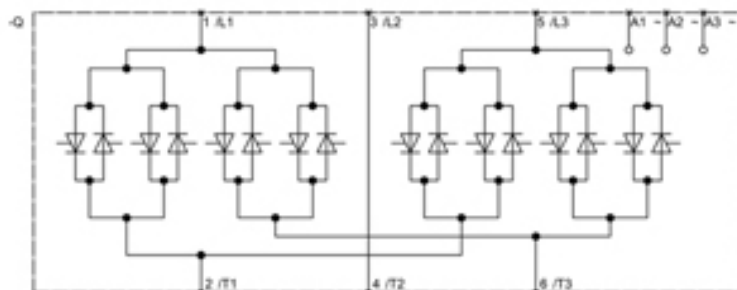
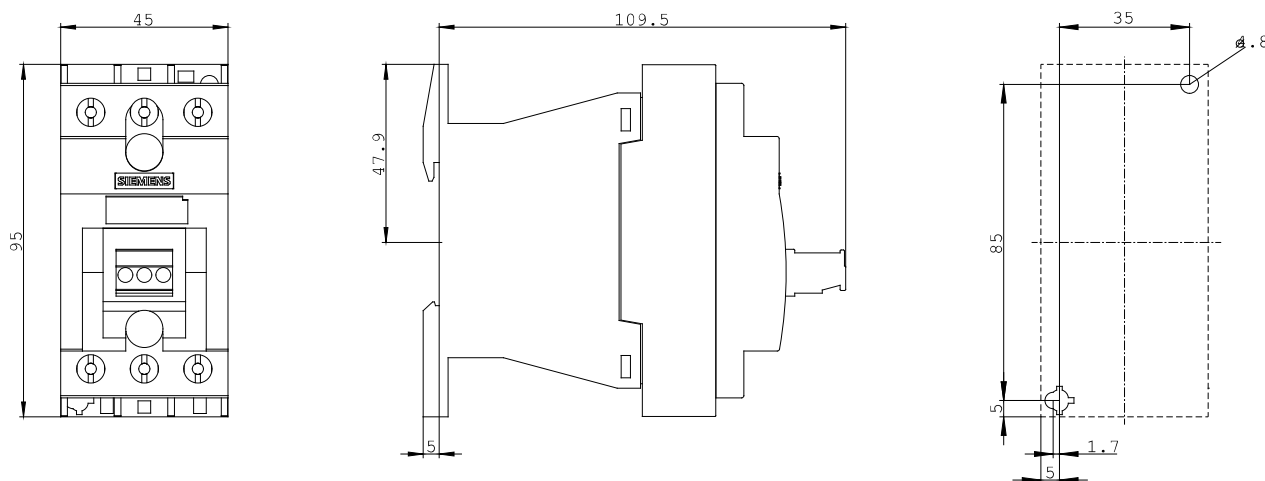
Operating current (FLA) / for three-phase squirrel cage motors

- at 480 V / rated value

A

4.8

Further information:



last change:

Feb 4, 2013